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OM protein - protein search, using sw model

Run on: October 7, 2003, 15:10:38 : Search time 30 seconds
(without alignments)
2320.457 Million cell updates/sec

Title: US-09-826-509-449

Perfect score: 2292
Sequence: 1 MVEPPTASTPAMGAGP.....FNIDPAPELRPHLGIPTN 440

Scoring table: BIOSUM62
Gapop 10.0, Gapext 0.5

Searched: 587654 seqs, 158212981 residues

Total number of hits satisfying chosen parameters: 587654

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2287	99.8	440	US-10-345-680-41	Sequence 41, Appl
2	2287	99.8	440	US-10-225-567A-20	Sequence 20, Appl
3	1899.5	82.9	437	US-09-829-631A-8	Sequence 8, Appl
4	1768.5	77.2	439	US-09-829-631A-13	Sequence 13, Appl
5	1387	60.5	291	US-09-829-631A-10	Sequence 10, Appl
6	557	24.1	477	US-10-225-567A-50	Sequence 50, Appl
7	552.5	24.1	400	US-09-829-631A-10	Sequence 4, Appl
8	552.5	24.1	400	US-09-829-631A-10	Sequence 6, Appl
9	552.5	24.1	446	US-10-299-642-2	Sequence 2, Appl
10	552.5	24.1	446	US-10-299-642-2	Sequence 4, Appl
11	552.5	24.1	446	US-10-299-642-2	Sequence 6, Appl
12	552.5	24.1	446	US-10-299-642-2	Sequence 8, Appl
13	548.5	23.9	446	US-10-299-642-16	Sequence 16, Appl
14	547.5	23.9	446	US-10-277-078-4	Sequence 4, Appl
15	538.5	23.5	446	US-10-299-642-32	Sequence 32, Appl

16	535	23.3	445	US-10-299-642-28	Sequence 28, Appl
17	533.5	23.3	446	US-10-299-642-22	Sequence 22, Appl
18	531.5	22.2	446	US-10-299-642-20	Sequence 20, Appl
19	531	23.2	408	US-09-829-631A-5	Sequence 5, Appl
20	531	23.2	408	US-10-225-567A-54	Sequence 54, Appl
21	530.5	23.1	446	US-10-299-642-2	Sequence 30, Appl
22	523.5	22.8	391	US-09-992-238-25	Sequence 25, Appl
23	520	22.7	408	US-09-829-631A-11	Sequence 11, Appl
24	515.5	22.5	382	US-09-993-844-5	Sequence 5, Appl
25	512.5	22.4	146	US-09-829-631A-11	Sequence 11, Appl
26	508.5	22.2	394	US-09-993-844-7	Sequence 8, Appl
27	507.5	22.1	560	US-10-238-129-8	Sequence 8, Appl
28	507.5	22.1	560	US-10-238-129-8	Sequence 8, Appl
29	505.5	22.1	562	US-10-238-667-8	Sequence 8, Appl
30	503	21.9	572	US-09-992-238-14	Sequence 14, Appl
31	503	21.9	572	US-09-992-238-13	Sequence 13, Appl
32	503	21.9	572	US-10-185-991-2	Sequence 2, Appl
33	503	21.9	572	US-10-238-129-2	Sequence 2, Appl
34	503	21.9	572	US-10-238-667-2	Sequence 2, Appl
35	500	21.8	450	US-10-225-567A-34	Sequence 34, Appl
36	499.5	21.8	501	US-10-239-642-26	Sequence 26, Appl
37	499.5	21.8	501	US-09-951-622-9	Sequence 9, Appl
38	494.5	21.6	478	US-10-176-255-33	Sequence 33, Appl
39	493	21.5	515	US-10-238-129-10	Sequence 10, Appl
40	493	21.5	515	US-10-238-667-10	Sequence 10, Appl
41	489.5	21.4	477	US-10-299-642-8	Sequence 8, Appl
42	489.5	21.4	477	US-10-299-642-10	Sequence 10, Appl
43	489.5	21.4	477	US-10-277-078-2	Sequence 2, Appl
44	489.5	21.4	477	US-10-225-567A-100	Sequence 100, Appl
45	489	21.3	497	US-10-052-589-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-10-345-680-41
Sequence 41, Application US/10345680
Publication No. US20030148394A1
GENERAL INFORMATION:
APPLICANT: Millenium Pharmaceuticals, Inc.
APPLICANT: Sllas-Santiago, Immaculada
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 651 MOLECULES.
FILE REFERENCE: MP102-012PIRM.COMNI
CURRENT APPLICATION NUMBER: US/10/345,680
CURRENT FILING DATE: 2003-01-16
PRIOR APPLICATION NUMBER: US 60/349,511
PRIOR FILING DATE: 2002-01-18
PRIOR APPLICATION NUMBER: US 60/360,500
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/365,041
PRIOR FILING DATE: 2002-03-15
PRIOR APPLICATION NUMBER: US 60/374,063
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: US 60/403,468
PRIOR FILING DATE: 2002-08-14
PRIOR APPLICATION NUMBER: US 60/414,262
PRIOR FILING DATE: 2002-09-27
PRIOR APPLICATION NUMBER: US 60/419,986
PRIOR FILING DATE: 2002-10-21
PRIOR APPLICATION NUMBER: US 60/423,809
PRIOR FILING DATE: 2002-11-05
PRIOR APPLICATION NUMBER: US 60/429,797
PRIOR FILING DATE: 2002-11-26
NUMBER OF SEQ ID NOS: 66
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 41
LENGTH: 440
TYPE: PRT

ORGANISM: Homo Sapiens
US-10-345-680-41

Query Match 99.8%; Score 2287; DB 12; Length 440;
Best Local Similarity 99.8%; Pred. No. 5.2e-177;
Matches 439; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 61 SNFELVSLFTSDMLVGLVMPAMLNALYGRWVLARGLCLMTAFDVCCSASITNLCI 120
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DB 121 SLDRYLILSLPRKRLKMTPLRALALVLAWSLAALASFLPLLLGHEHGHARPPVQC 180
OY 181 RLASLPFLVLAAGLTFELPSGALCFYCRILLAARKQAVASLTGMSQASSETLOVP 240
DB 181 RLASLPFLVLAAGLTFELPSGALCFYCRILLAARKQAVASLTGMSQASSETLOVP 240
OY 241 RTPRGVESADSRRLATKHSRKALKAKLTGILGMFEFVWLPFFVANIQAQVCCISPG 300
DB 241 RTPRGVESADSRRLATKHSRKALKAKLTGILGMFEFVWLPFFVANIQAQVCCISPG 300
OY 301 LFDVLTWLGYNSTNMPNIIYPLFMDKFRALGRFLPCPCPRERQASLASPSLTSMSGP 360
DB 301 LFDVLTWLGYNSTNMPNIIYPLFMDKFRALGRFLPCPCPRERQASLASPSLTSMSGP 360
OY 361 RPLSLQOVLPLPPDSDSDSAGSGSGSLRLTAQLLPGEATODPPLPTRAANAANF 420
DB 361 RPLSLQOVLPLPPDSDSDSAGSGSGSLRLTAQLLPGEATODPPLPTRAANAANF 420
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DB 421 FNIDPAEELRPHPLGIPTN 440

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RESULT 2

US-10-225-567A-20
Sequence 20, Application US/10225567A
Publication No. US20030113798A1
GENERAL INFORMATION:
APPLICANT: Lifespan Biosciences
APPLICANT: Brown, Joseph P.
APPLICANT: Burner, Glenna C.
TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 1920-4-4
CURRENT APPLICATION NUMBER: US/10/225,567A
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/257,144
PRIOR FILING DATE: 2000-12-19
NUMBER OF SEQ ID NOS: 2292
SOFTWARE: Patent version 3.1
SEQ ID NO 20
LENGTH: 440
TYPE: PRT
ORGANISM: Homo sapiens
US-10-225-567A-20

Query Match 99.8%; Score 2287; DB 15; Length 440;
Best Local Similarity 99.8%; Pred. No. 5.2e-177;
Matches 439; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 61 SNFELVSLFTSDMLVGLVMPAMLNALYGRWVLARGLCLMTAFDVCCSASITNLCI 120

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DB 61 SNFELVSLFTSDMLVGLVMPAMLNALYGRWVLARGLCLMTAFDVCCSASITNLCI 120
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DB 121 SLDRYLILSLPRKRLKMTPLRALALVLAWSLAALASFLPLLLGHEHGHARPPVQC 180
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DB 181 RLASLPFLVLAAGLTFELPSGALCFYCRILLAARKQAVASLTGMSQASSETLOVP 240
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DB 241 RTPRGVESADSRRLATKHSRKALKAKLTGILGMFEFVWLPFFVANIQAQVCCISPG 300
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DB 301 LFDVLTWLGYNSTNMPNIIYPLFMDKFRALGRFLPCPCPRERQASLASPSLTSMSGP 360
OY 361 RPLSLQOVLPLPPDSDSDSAGSGSGSLRLTAQLLPGEATODPPLPTRAANAANF 420
DB 361 RPLSLQOVLPLPPDSDSDSAGSGSGSLRLTAQLLPGEATODPPLPTRAANAANF 420
OY 421 FNIDPAEELRPHPLGIPTN 440
DB 421 FNIDPAEELRPHPLGIPTN 440

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RESULT 3

US-09-829-631A-8
Sequence 8, Application US/09829631A
Patent No. US20020091235A1
GENERAL INFORMATION:
APPLICANT: Sidley, David R.
APPLICANT: Monsma, Frederick J.
APPLICANT: Hamblin, Mark
TITLE OF INVENTION: The 5T-B17 Serotonin Receptor
FILE REFERENCE: NIH047,10P101
CURRENT APPLICATION NUMBER: US/09/829,631A
CURRENT FILING DATE: 2001-04-10
PRIOR APPLICATION NUMBER: US 08/428,242
PRIOR FILING DATE: 1995-09-18
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 437
TYPE: PRT
ORGANISM: Rat
US-09-829-631A-8

Query Match 82.9%; Score 1899.5; DB 9; Length 437;
Best Local Similarity 84.5%; Pred. No. 1.2e-145;
Matches 376; Conservative 11; Mismatches 45; Indels 13; Gaps 4;

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DB 61 SNFELVSLFTSDMLVGLVMPAMLNALYGRWVLARGLCLMTAFDVCCSASITNLCI 120
OY 121 SLDRYLILSLPRKRLKMTPLRALALVLAWSLAALASFLPLLLGHEHGHARPPVQC 180
DB 121 SLDRYLILSLPRKRLKMTPLRALALVLAWSLAALASFLPLLLGHEHGHARPPVQC 180
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DB 181 RLASLPFLVLAAGLTFELPSGALCFYCRILLAARKQAVASLTGMSQASSETLOVP 240
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DB 241 RTPRGVESADSRRLATKHSRKALKAKLTGILGMFEFVWLPFFVANIQAQVCCISPG 300

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DB 301 LFDVLTWLGYSNTPNPIIYPLFMKDFKRALGFLNASTVPR-----STGCPCLPLHVDLS 356
QY 356 SHSGPPGSLGLOOVLPLPPDSDDSDAGSSGSLRLTAQLLGEATODPPPLPRAA 415
DB 357 QRCQRRP--QLQOVLALPLPPNSDSDS--ASGGSGLQLTAQLLGEATODPPPLPRAA 412
QY 416 AAVNFENIDPAPPELRPHPLGIPTN 440
DB 413 EVVNFVTVDSVEPEIRPHPLSSPVN 437

RESULT 4
US-09-829-631A-13
; Sequence 13, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
; APPLICANT: Sibley, David R.
; APPLICANT: Monsma, Frederick J.
; APPLICANT: Hamblin, Mark
; TITLE OF INVENTION: The ST-B17 Serotonin Receptor
; FILE REFERENCE: NIH047.1CPICI
; CURRENT APPLICATION NUMBER: US/09/829,631A
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 08/428,242
; PRIOR FILING DATE: 1995-09-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(439)
; OTHER INFORMATION: Xaa - Any Amino Acid
US-09-829-631A-13

Query Match 77.2%; Score 1768.5; DB 9; Length 439;
Best Local Similarity 77.6%; Pred. No. 4.8e-135;
Matches 356; Conservative 8; Mismatches 56; Indels 39; Gaps 4;

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DB 60 SNFVLVSLETSDDLAVGLVMPAMNLYGRVLAARGICLMTAFDVMCCSASITLCL 119
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DB 120 SLDRYLLISPLRYKLRMTPLRALALVLAWSLAASFLPLLGMHGLHARRPPVQC 179
QY 181 RLASLPEVLVAGSLFFELPSGALCFYTCRILLARKQAVOASLTGMSQASSETLOVP 240
DB 180 RLASLPEVLVAGSLFFELPSGALCFYTCRILLARKQAVOASLTGMSQASSETLOVP 239
QY 241 RTRPGVESADSRRLATKHSRKALKAKLTGLIGMFFVTWLPFFVANIYOAVDCISPG 300
DB 240 RTRPGVESADSRRLATKHSRKALKAKLTGLIGMFFVTWLPFFVANIYOAVDCISPG 299
QY 301 LFDVLTWLGYSNTPNPIIYPLFMKDFKRALGFLPCPCPRRQASLSPSTL-----P 343
DB 300 LFDVLTWLGYSNTPNPIIYPLFMKDFKRALGFLPCPCPRR-----P 343
QY 361 RPLGISLQOVLPLDLPD-----SDSDAGSGSSGLRLTAQLL 401
DB 344 RPAWPRHHCAPLTAAPALAYSRCRCPCRRQRIQRTQDAAPARACGSRPSCFLARP 403
QY 402 GEATODPPPLPRAAANFNENIDPAPPELRPHPLGIPTN 440
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DB 404 PRRPCPGPLPPSIS---STXYPAPPELRPHPLGIPTN 439

RESULT 5
US-09-829-631A-10
; Sequence 10, Application US/09829631A
; Patent No. US20020091235A1
; GENERAL INFORMATION:
; APPLICANT: Sibley, David R.
; APPLICANT: Monsma, Frederick J.
; APPLICANT: Hamblin, Mark
; TITLE OF INVENTION: The ST-B17 Serotonin Receptor
; FILE REFERENCE: NIH047.1CPICI
; CURRENT APPLICATION NUMBER: US/09/829,631A
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 08/428,242
; PRIOR FILING DATE: 1995-09-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Rat
US-09-829-631A-10

Query Match 60.5%; Score 1387; DB 9; Length 291;
Best Local Similarity 92.8%; Pred. No. 2.2e-104;
Matches 270; Conservative 5; Mismatches 16; Indels 0; Gaps 0;

QY 1 MWPEPGPTANSTPANGAGPPSAPGSGWVAALCVIYALTAANSLLALICTOPALNT 60
DB 1 MWPEPGVNSTPANGPGPPAPGSGWVAALCVIYALTAANSLLALICTOPAVRNT 60
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DB 61 SNFVLVSLETSDDLAVGLVMPAMNLYGRVLAARGICLMTAFDVMCCSASITLCL 120
QY 121 SLDRYLLISPLRYKLRMTPLRALALVLAWSLAASFLPLLGMHGLHARRPPVQC 180
DB 121 SLDRYLLISPLRYKLRMTAPRALALVLAWSLAASFLPLLGMHGLHARRPPVQC 180
QY 181 RLASLPEVLVAGSLFFELPSGALCFYTCRILLARKQAVOASLTGMSQASSETLOVP 240
DB 181 RLASLPEVLVAGSLFFELPSGALCFYTCRILLARKQAVOASLTGMSQASSETLOVP 240
QY 241 RTRPGVESADSRRLATKHSRKALKAKLTGLIGMFFVTWLPFFVANIYQ 291
DB 241 RTRPGVESADSRRLATKHSRKALKAKLTGLIGMFFVTWLPFFVANIYQ 291

RESULT 6
US-10-225-567A-50
; Sequence 50, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/225,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
; LENGTH: 477
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-50
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Query Match 24.3%; Score 557; DB 15; Length 477;
Best Local Similarity 33.8%; Pred. No. 6,3e-37;
Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;

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DB 33 LVPSAPASILPPSESPESPELQOWTAGKMLMALIVLLVAGNVLTVALAKTPIRLQTL 92
QY 61 SNFELVSLFTSDLVAVGLVMPAMNLVGRWVLARGLCLMTAFDVWCCSASINCLT 120
DB 93 TNEFTMSLADLVGLVVPFGATVYWGMEVSGSFCELMTSVDLCVYASLETLCVI 152
QY 121 SLDRYLLILSLPKLRLKLTALATVLAGMSLAALASFLPLLLG--HELGHARPPV-- 176
DB 153 ALDRYLAITSPIRQSLTTRARAGLVCTYMAISALVSLPIILMHWRASDEARRCYND 212
QY 177 PGCCRLIASLPEVLVAGSLTFPLPSGALICTYCRILLARKQAVQVAS--LTTGNASQ 232
DB 213 PKCDFVTNRAVAIASVSFVYDLICIMAFVYLAVFREAGQKQYKKIDSCERRFLGPARP 272
QY 233 ASER-----LOVPRTPRGVEASDS-----RLATKSRKALKAKLTIGIL 273
DB 273 PPSPPSPVPAPAPPPGPRPAAATAPLANGRAGKRRPSRLVALREOKALK--TLGII 329
QY 274 LGMEFTWLPFEVANIYQAV--DCISPLGFLDVLTLWLGCSNTMNPITY--PLEMRDEKR 329
DB 330 MGVTTCMLPFLANVAKHARELVPRFLVFENWGLYANSANPIIYCNSP--DERK 385
QY 330 ALGFLPCPRCPREKQASLASPLSLTSHSGPRGLSLQOVLPLPLP--PDSDSDSAGSG 388
DB 386 AFQGLCCARRARRRRHATGDRBRASGCLARPG-----PPSPGASDDDDDDVYGA 438
QY 389 SSGRL 394
DB 439 TPPARL 444

RESULT 7
US-09-895-211-4

; Sequence 4, Application US/09895211
; Patent No. US20020127639A1
; GENERAL INFORMATION:
; APPLICANT: Hulton and Williams
; APPLICANT: Emorine, Laurent
; TITLE OF INVENTION: INTRON/EXON STRUCTURE OF THE HUMAN AND MOUSE BETA3 ADRENERGIC RGC
; TITLE OF INVENTION: GENES
; FILE REFERENCE: 58769.000011
; CURRENT APPLICATION NUMBER: US/09/895,211
; CURRENT FILING DATE: 2001-07-02
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-895-211-4

Query Match 24.1%; Score 552.5; DB 10; Length 400;
Best Local Similarity 35.1%; Pred. No. 1.2e-36;
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGFTANSTPA--WGAGP--PSAPGSG-----WVAALCVIAL--TAANSLIALICTQ 54
DB 3 PWRHRGSLALMSDAPTLDPSSAANTSGLPVMAALAGALLATATVGGCLVITAIART 62
QY 55 PALRNTSNFELVSLFTSDLVAVGLVMPAMNLVGRWVLARGLCLMTAFDVWCCSASI 114
DB 63 PRIQITNVEVTSIAAADLVGLVMPPGATLALTGHMPLGEGCELMTSVDLCVYASI 122
QY 115 LNLCLISDRYLLILSLPKLRLKLTALATVLAGMSLAALASFLPLLLGHELG---- 170
DB 123 ETICALAVDRYLAVTNPLRYGLTVTKRRARAVALVWIVSAVSFAPIMSQMWRVGAADAE 182

QY 171 ----HARPPVGGCRLIASLPEVLVAGSLTFPLPSGALICTYCRILLARKQAVASLT 226
DB 183 AQECHSNPRC---CSFASNMPYALLSSSVSYFLVLMVLEYANVFAVAKOR--HLRRE 238
QY 227 TGNASQASSETLOVPRTRP-----GVESADSR--RLATKSRKALKAKLTIGIL 274
DB 239 LGRSPSESPSPSPSPSPATGTPAPADGVPPCGRRPARLLPREHRAAL--TLGIM 295
QY 275 GMEFTWLPFEVANIYQAV--DCISPLGFLDVLTLWLGCSNTMNPITY--PLEMRDEKR 329
DB 296 GISFLCWLPEFLANVLRALGSLVPSGVFTALNMLGANSAPNPVIYCRSPDFRDAFR 355
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHGPRP 362
DB 356 LICSYGGRGPEERPAVTFPASVPAKQSPPLNRFDEGARP 397

RESULT 8
US-09-895-211-6

; Sequence 6, Application US/09895211
; Patent No. US20020127639A1
; GENERAL INFORMATION:
; APPLICANT: Hulton and Williams
; APPLICANT: Emorine, Laurent
; TITLE OF INVENTION: INTRON/EXON STRUCTURE OF THE HUMAN AND MOUSE BETA3 ADRENERGIC
; TITLE OF INVENTION: GENES
; FILE REFERENCE: 58769.000011
; CURRENT APPLICATION NUMBER: US/09/895,211
; CURRENT FILING DATE: 2001-07-02
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-895-211-6

Query Match 24.1%; Score 552.5; DB 10; Length 400;
Best Local Similarity 35.1%; Pred. No. 1.2e-36;
Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGFTANSTPA--WGAGP--PSAPGSG-----WVAALCVIAL--TAANSLIALICTQ 54
DB 3 PWRHRGSLALMSDAPTLDPSSAANTSGLPVMAALAGALLATATVGGCLVITAIART 62
QY 55 PALRNTSNFELVSLFTSDLVAVGLVMPAMNLVGRWVLARGLCLMTAFDVWCCSASI 114
DB 63 PRIQITNVEVTSIAAADLVGLVMPPGATLALTGHMPLGEGCELMTSVDLCVYASI 122
QY 115 LNLCLISDRYLLILSLPKLRLKLTALATVLAGMSLAALASFLPLLLGHELG---- 170
DB 123 ETICALAVDRYLAVTNPLRYGLTVTKRRARAVALVWIVSAVSFAPIMSQMWRVGAADAE 182
QY 171 ----HARPPVGGCRLIASLPEVLVAGSLTFPLPSGALICTYCRILLARKQAVASLT 226
DB 183 AQECHSNPRC---CSFASNMPYALLSSSVSYFLVLMVLEYANVFAVAKOR--HLRRE 238
QY 227 TGNASQASSETLOVPRTRP-----GVESADSR--RLATKSRKALKAKLTIGIL 274
DB 239 LGRSPSESPSPSPSPATGTPAPADGVPPCGRRPARLLPREHRAAL--TLGIM 295
QY 275 GMEFTWLPFEVANIYQAV--DCISPLGFLDVLTLWLGCSNTMNPITY--PLEMRDEKR 329
DB 296 GISFLCWLPEFLANVLRALGSLVPSGVFTALNMLGANSAPNPVIYCRSPDFRDAFR 355
QY 330 AL-----GRFLPCPRC---PRERQASLASPSLR--TSHGPRP 362
DB 356 LICSYGGRGPEERPAVTFPASVPAKQSPPLNRFDEGARP 397

RESULT 9
US-10-299-642-2
; Sequence 2, Application US/10299642

```

Publication No. US20030170741A1
GENERAL INFORMATION:
APPLICANT: The Procter & Gamble Company
APPLICANT: Isfort, Robert
APPLICANT: Sheldon, Russell
TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass or
TITLE OF INVENTION: Using Dopamine Receptors
FILE REFERENCE: 8448M
CURRENT APPLICATION NUMBER: US/10/299,642
CURRENT FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: 60/349,620
PRIOR FILING DATE: 2002-07-01
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 446
TYPE: PRT
ORGANISM: Homo sapiens
US-10-299-642-2

Query Match
Best Local Similarity 24.1%; Score 552.5; DB 12; Length 446;
Best Local Similarity 31.2%; Pred. No. 1.3e-36;
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

QY 21 SAPGSGWV-----AALCVYALTAANSLLIALICTOPALRN-TSNFELVSL 68
DB 7 SAMDGLVVERDVSRLTACFLSLILSTLGLTGLVCAVIRRHLSKVTNFEVLSL 66
QY 69 FTSDLMVGLVMPAMNLYGRWYLAAGLCLMTAFDVMCCSASTINCLISDRYLI 128
DB 67 AVSDDLAVLVMPKAAVEIAAGFWPG-SFCNIWAFDIMCSTASILNLCVSVDRYAI 125
QY 129 LSPRLRYKLMPLRALALVLAAGMSLAALASFLPLLGHMELGHARPPVG----- 178
DB 126 SSPFRYERKMTPKAFILISVAMTSLVLSIFIPOLSHRK---AKPTSPDGNATSLAET 182
QY 179 --QCRLLASLPFVVAAGLTFELPSGAICFTYCRILLAAKRAVOVASL-TTGMAQSASE 235
DB 183 IDNCDSLSRYTAISSVSISFYIPVAMIVYTRYIRIAOKOIRIALEAAVHAKNQ 242
QY 236 TLOVPRTPRGVESADSRRLATKHSRKALKAKLTGLLGMFEVYMWLPFVANIYQAVCD 295
DB 243 TTGNKRPVECSQPESSFKMSFKRETKYK---TSLVMGVFCMLPEFILLNCLPFCG 299
QY 296 -----CISPGLEFVLTWLGYNSTNMPITPYLFMDFKALGRFLPCPR-CRERQA- 346
DB 300 SGETOPFCIDSTNTEFVWFGWANSINLPITY-AFNADFRKAFSTLLGCYRLCPATNNAI 358
QY 347 -----SLASPSLRTSHSGPRGSLIQOVLPLPLPPDSDDSDAGSGSSGLRTRAQLLP 401
DB 359 ETVSINNNGAAMFSSHHEPRGSIKECNLYVILIPHAVGSSDLKKEEAAGIARPLEKLS 418
QY 402 GEATODPPLPTRAAAVNFNIDPAPELRP-----HP 434
DB 419 -----ALSVILDYDTVDVLEKIQIPITONGQHP 445

RESULT 10
US-10-299-642-4
Sequence 4, Application US/10299642
Publication No. US20030170741A1
GENERAL INFORMATION:
APPLICANT: The Procter & Gamble Company
APPLICANT: Isfort, Robert
APPLICANT: Sheldon, Russell
TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass or
TITLE OF INVENTION: Using Dopamine Receptors
FILE REFERENCE: 8448M
CURRENT APPLICATION NUMBER: US/10/299,642
CURRENT FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: 60/349,620
PRIOR FILING DATE: 2002-07-01
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 446
TYPE: PRT
ORGANISM: Homo sapiens
US-10-299-642-6

Query Match
Best Local Similarity 24.1%; Score 552.5; DB 12; Length 446;
Best Local Similarity 31.2%; Pred. No. 1.3e-36;
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

```

```

SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 446
TYPE: PRT
ORGANISM: Homo sapiens
US-10-299-642-4

Query Match
Best Local Similarity 24.1%; Score 552.5; DB 12; Length 446;
Best Local Similarity 31.2%; Pred. No. 1.3e-36;
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

QY 21 SAPGSGWV-----AALCVYALTAANSLLIALICTOPALRN-TSNFELVSL 68
DB 7 SAMDGLVVERDVSRLTACFLSLILSTLGLTGLVCAVIRRHLSKVTNFEVLSL 66
QY 69 FTSDLMVGLVMPAMNLYGRWYLAAGLCLMTAFDVMCCSASTINCLISDRYLI 128
DB 67 AVSDDLAVLVMPKAAVEIAAGFWPG-SFCNIWAFDIMCSTASILNLCVSVDRYAI 125
QY 129 LSPRLRYKLMPLRALALVLAAGMSLAALASFLPLLGHMELGHARPPVG----- 178
DB 126 SSPFRYERKMTPKAFILISVAMTSLVLSIFIPOLSHRK---AKPTSPDGNATSLAET 182
QY 179 --QCRLLASLPFVVAAGLTFELPSGAICFTYCRILLAAKRAVOVASL-TTGMAQSASE 235
DB 183 IDNCDSLSRYTAISSVSISFYIPVAMIVYTRYIRIAOKOIRIALEAAVHAKNQ 242
QY 236 TLOVPRTPRGVESADSRRLATKHSRKALKAKLTGLLGMFEVYMWLPFVANIYQAVCD 295
DB 243 TTGNKRPVECSQPESSFKMSFKRETKYK---TSLVMGVFCMLPEFILLNCLPFCG 299
QY 296 -----CISPGLEFVLTWLGYNSTNMPITPYLFMDFKALGRFLPCPR-CRERQA- 346
DB 300 SGETOPFCIDSTNTEFVWFGWANSINLPITY-AFNADFRKAFSTLLGCYRLCPATNNAI 358
QY 347 -----SLASPSLRTSHSGPRGSLIQOVLPLPLPPDSDDSDAGSGSSGLRTRAQLLP 401
DB 359 ETVSINNNGAAMFSSHHEPRGSIKECNLYVILIPHAVGSSDLKKEEAAGIARPLEKLS 418
QY 402 GEATODPPLPTRAAAVNFNIDPAPELRP-----HP 434
DB 419 -----ALSVILDYDTVDVLEKIQIPITONGQHP 445

RESULT 11
US-10-299-642-6
Sequence 6, Application US/10299642
Publication No. US20030170741A1
GENERAL INFORMATION:
APPLICANT: The Procter & Gamble Company
APPLICANT: Isfort, Robert
APPLICANT: Sheldon, Russell
TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass
TITLE OF INVENTION: Using Dopamine Receptors
FILE REFERENCE: 8448M
CURRENT APPLICATION NUMBER: US/10/299,642
CURRENT FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: 60/349,620
PRIOR FILING DATE: 2002-07-01
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 446
TYPE: PRT
ORGANISM: Homo sapiens
US-10-299-642-6

Query Match
Best Local Similarity 24.1%; Score 552.5; DB 12; Length 446;
Best Local Similarity 31.2%; Pred. No. 1.3e-36;
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

```

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Db      7 SAMDGLVERDESVRIITACFLSLILSTLGNITVCAVIRFRRLRSKVTNFEVYSL 66
OY      69 FTSDLVAVGLVMPAMPALNLYGRVILARGLCLMTAFDVCCSASINLCISLDRYLI 128
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      67 AVSDLLVAVLVMPKRAVAEIAEGFWPG-SECNIMVAFDINCSTASINLCVISDRYMAI 125
OY      129 LSPRLKRLMTPLRALALVVGANSIALASFLPLLGWHELGHARPPVPG----- 178
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      126 SSPFRERKMTPKRAAFILISVAMTSLVLSIFIPQLSWNR---AKPTSPDGNATSLAET 182
OY      179 --QCRLLASLPEVLVAGSLFPLPSGAICFTYCRILIAARKQAVOYASL-TTGMAQASE 235
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      183 INDCDSLSRTYAIISSSVISFYIPVAIMITYTRIIRIAKQIRIALAERAAVHAKNCQ 242
OY      236 TLOVPRTPRGVESADSRRLATKHSRKALAKLTGLIGLMEFTVWLPFEVANIYQAVCD 295
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      243 TTGNKRPVBCSPESSEFKMSFRKRETVLK---TLSYIMGVFCWMLPFILNCILPFCG 299
OY      296 -----CISPGLEFDVLTWLGYCNSMTNPIIYLFMDFRKALGRFLPCR-CPREROA- 346
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      300 SGETOPFCIDSTFDFVFWFGMANSSLNPIIY-AFNADFRKASTLLGCYRLCPATNNAI 358
OY      347 -----SLASPSLRTSHSGPRGSLQOVLPLPDPDSDDSDAGSGSGSLRLTAOLLP 401
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      359 ETVSINNNGAAMFSSHHEPRGSKSCNLYVILPHAVGSSDDLKKEAAGIARPLEKLS 418
OY      402 GEATQDPLPTRAAAVNFENIDPAEELRP-----HP 434
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      419 -----ALSVILDDYDVSLEKIQIPITONGQHP 445

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RESULT 12

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US-10-225-567A-98
; Sequence 98, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine T.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 98
; LENGTH: 446
; TYPE: PRT
; ORGANISM: Homo sapiens
S-10-225-567A-98

```

Query Match 24.1%; Score 552.5; DB 15; Length 446;
Best Local Similarity 31.2%; Pred. No. 1,3e-36;

Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

```

OY      21 SAPGSGWV-----AAACVYIALTAANSLLIICQPALRN-TSNFEYVL 68
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      7 SAMDGLVERDESVRIITACFLSLILSTLGNITVCAVIRFRRLRSKVTNFEVYSL 66
OY      69 FTSDLVAVGLVMPAMPALNLYGRVILARGLCLMTAFDVCCSASINLCISLDRYLI 128
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      67 AVSDLLVAVLVMPKRAVAEIAEGFWPG-SECNIMVAFDINCSTASINLCVISDRYMAI 125
OY      129 LSPRLKRLMTPLRALALVVGANSIALASFLPLLGWHELGHARPPVPG----- 178
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      126 SSPFRERKMTPKRAAFILISVAMTSLVLSIFIPQLSWNR---AKPTSPDGNATSLAET 182
OY      179 --QCRLLASLPEVLVAGSLFPLPSGAICFTYCRILIAARKQAVOYASL-TTGMAQASE 235
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      183 INDCDSLSRTYAIISSSVISFYIPVAIMITYTRIIRIAKQIRIALAERAAVHAKNCQ 242

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OY      236 TLOVPRTPRGVESADSRRLATKHSRKALAKLTGLIGLMEFTVWLPFEVANIYQAVCD 295
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      243 TTGNKRPVBCSPESSEFKMSFRKRETVLK---TLSYIMGVFCWMLPFILNCILPFCG 299
OY      296 -----CISPGLEFDVLTWLGYCNSMTNPIIYLFMDFRKALGRFLPCR-CPREROA- 346
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      300 SGETOPFCIDSTFDFVFWFGMANSSLNPIIY-AFNADFRKASTLLGCYRLCPATNNAI 358
OY      347 -----SLASPSLRTSHSGPRGSLQOVLPLPDPDSDDSDAGSGSGSLRLTAOLLP 401
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      359 ETVSINNNGAAMFSSHHEPRGSKSCNLYVILPHAVGSSDDLKKEAAGIARPLEKLS 418
OY      402 GEATQDPLPTRAAAVNFENIDPAEELRP-----HP 434
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      419 -----ALSVILDDYDVSLEKIQIPITONGQHP 445

```

RESULT 13

```

US-10-299-642-16
; Sequence 16, Application US/10299642
; Publication No. US20030170741A1
; GENERAL INFORMATION:
; APPLICANT: The Procter & Gamble Company
; APPLICANT: Isfort, Robert
; APPLICANT: Sheldon, Russell
; TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass
; FILE REFERENCE: 8448W
; CURRENT APPLICATION NUMBER: US/10/299,642
; CURRENT FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 60/349,620
; PRIOR FILING DATE: 2002-07-01
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 446
; TYPE: PRT
; ORGANISM: Rhesus macaque
US-10-299-642-16

```

Query Match 23.9%; Score 548.5; DB 12; Length 446;
Best Local Similarity 31.2%; Pred. No. 2.6e-36;

Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

```

OY      21 SAPGSGWV-----AAACVYIALTAANSLLIICQPALRN-TSNFEYVL 68
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      7 SAMDGLVERDESVRIITACFLSLILSTLGNITVCAVIRFRRLRSKVTNFEVYSL 66
OY      69 FTSDLVAVGLVMPAMPALNLYGRVILARGLCLMTAFDVCCSASINLCISLDRYLI 128
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      67 AVSDLLVAVLVMPKRAVAEIAEGFWPG-SECNIMVAFDINCSTASINLCVISDRYMAI 125
OY      129 LSPRLKRLMTPLRALALVVGANSIALASFLPLLGWHELGHARPPVPG----- 178
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      126 SSPFRERKMTPKRAAFILISVAMTSLVLSIFIPQLSWNR---AKPTSPDGNATSLAET 182
OY      179 --QCRLLASLPEVLVAGSLFPLPSGAICFTYCRILIAARKQAVOYASL-TTGMAQASE 235
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      183 INDCDSLSRTYAIISSSVISFYIPVAIMITYTRIIRIAKQIRIALAERAAVHAKNCQ 242
OY      236 TLOVPRTPRGVESADSRRLATKHSRKALAKLTGLIGLMEFTVWLPFEVANIYQAVCD 295
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      243 TTGNKRPVBCSPESSEFKMSFRKRETVLK---TLSYIMGVFCWMLPFILNCILPFCG 299
OY      296 -----CISPGLEFDVLTWLGYCNSMTNPIIYLFMDFRKALGRFLPCR-CPREROA- 346
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      300 SGETOPFCIDSTFDFVFWFGMANSSLNPIIY-AFNADFRKASTLLGCYRLCPATNNAI 358
OY      347 -----SLASPSLRTSHSGPRGSLQOVLPLPDPDSDDSDAGSGSGSLRLTAOLLP 401
        |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      359 ETVSINNNGAAMFSSHHEPRGSKSCNLYVILPHAVGSSDDLKKEAAGIARPLEKLS 418

```

OY 402 GEATODPPLPTRAAAVNFENIDPAPELRP-----HP 434
Db 419 -----ALSVILDDYDVTDSLEKIQIPITQNGHP 445

RESULT 14

US-10-277-078-4
Sequence 4, Application US/10277078
Publication No. US20030049794A1
GENERAL INFORMATION:

APPLICANT: Weinshank, Richard L.

Attlig, Paul R.

TITLE OF INVENTION: DNA Encoding A Human Dopamine D1
Receptor And Uses Thereof

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/277,078

FILING DATE: 21-Oct-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/168,510

FILING DATE: <Unknown>

APPLICATION NUMBER: 07/969,267

FILING DATE: 05-Oct-1993

APPLICATION NUMBER: 07/551,448

FILING DATE: 10-JUL-1990

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 37526-A-PCT-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-278-0400

TELEFAX: 212-391-0525

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 446 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

IMMEDIATE SOURCE:

CLONE: D1

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-10-277-078-4

Query Match

Best Local Similarity

Matches 142; Conservative 80; Mismatches 172; Indels 65; Gaps 13;

OY 21 SAPGSGWV-----AAALCVYVLTAAANSLIALICTOPALRN-TSNFIVSL 68

Db 7 SAMGTGLVVERDVSRLTACFLSLTLSTLLGNTLVCAAVIRRHLSKVTNEFVSL 66

OY 69 FTSDLMVGLVMPAPMLNALYGRWVLARGCLLTAFDVMCCSASILNCLISIDRYLLI 128

Db 67 AVSDLLAVLVMPKVAIAEIAFGFPG-SECNINWAFIMCSTASILDLCVSVDRYAI 125

OY 129 LSPRLKRLMPLRALALVLAAGMSLAALASFLPLLGHHELGHARPPVG----- 178

Db 126 SSPRYERKMTPKAAFLILISVAMTSLVLSIFIPVOLSVMK--AKPTSPSDGNATSLAET 182

OY 179 --QCRLIASLPEVLVAGLTFEFLPSGALCTYRRIILAAKROAVYASL-TTGMAQASE 235
Db 183 IDNCDSLSRTTYIAISSVSIFTPVAIMVYTRIRIAKQIRIAAERAAVHAKNQ 242
OY 236 TLQVPTPRPGVSADSRRLATKHSRKALKLTLLGLMFEVTWLPFEVANIYOAVCD 295
Db 243 TTGNCKPVECSPPESFKMSFKRETKYK---TLVIMGVFCCHLPFILNCILPFCG 299
OY 296 -----CISPGFLDVLTLWIGYCNSTNMPITLYLFMRDEKRALGRPLPCR-CPREQA- 346
Db 300 SGETOPECIDSNFTDVFVWFGMANSSINPIY-ANVADFKARSTLLGCYRLCPATNNAI 358
OY 347 -----SLASPLRSHSGPRGSLQOVLPLPLPPDSDSAGSGSSGLRTAQLLLP 401
Db 359 ETVSINNNGAMFSSHHEPRGSISKCNLYLLIPHAVGSESDLKKEEAGIARPLKSLP 418
OY 402 GEATODPPLPTRAAAVNFENIDPAPELRP-----HP 434
Db 419 -----ALSVILDDYDVTDSLEKIQIPITQNGHP 445

RESULT 15

US-10-299-642-32
Sequence 32, Application US/10299642
Publication No. US20030170741A1
GENERAL INFORMATION:

APPLICANT: The Procter & Gamble Company

APPLICANT: Isfort, Robert

APPLICANT: Sheldon, Russell

TITLE OF INVENTION: Methods for Identifying Compounds for Regulation Muscle Mass

FILE REFERENCE: 8448M

CURRENT APPLICATION NUMBER: US/10/299,642

CURRENT FILING DATE: 2003-10-09

PRIOR APPLICATION NUMBER: 60/349,620

PRIOR FILING DATE: 2002-07-01

NUMBER OF SEQ ID NOS: 32

SOFTWARE: Patent In version 3.1

SEQ ID NO 32

LENGTH: 446

TYPE: PRT

ORGANISM: Sus scrofa

US-10-299-642-32

Query Match

Best Local Similarity

Matches 142; Conservative 78; Mismatches 173; Indels 67; Gaps 14;

OY 21 SAPGSGWV-----AAALCVYVLTAAANSLIALICTOPALRN-TSNFIVSL 68

Db 7 STMDGTGLVVERDVSRLTACFLSLTLSTLLGNTLVCAAVIRRHLSKVTNEFVSL 66

OY 69 FTSDLMVGLVMPAPMLNALYGRWVLARGCLLTAFDVMCCSASILNCLISIDRYLLI 128

Db 67 AVSDLLAVLVMPKVAIAEIAFGFPG-SECNINWAFIMCSTASILDLCVSVDRYAI 125

OY 129 LSPRLKRLMPLRALALVLAAGMSLAALASFLPLLGHHELGHARPPVG----- 178

Db 126 SSPRYERKMTPKAAFLILISVAMTSLVLSIFIPVOLSVMK--AKPTSPSDGNATSLAET 182

OY 179 --QCRLIASLPEVLVAGLTFEFLPSGALCTYRRIILAAKROAVYASL-TTGMAQASE 235

Db 183 IDNCDSLSRTTYIAISSVSIFTPVAIMVYTRIRIAKQIRIAAERAAVHAKNQ 242

OY 236 TLQVPTPRPGVSADSRRLATKHSRKALKLTLLGLMFEVTWLPFEVANIYOAVCD 295

Db 243 TTGNCKPVECSPPESFKMSFKRETKYK---TLVIMGVFCCHLPFILNCILPFCG 299

OY 296 -----CISPGFLDVLTLWIGYCNSTNMPITLYLFMRDEKRALGRPLPCR-CPREQA- 347

Db 300 SGETOPECIDSNFTDVFVWFGMANSSINPIY-ANVADFKARSTLLGCYRLCPATNNAI 358

OY 347 -----SLASPLRSHSGPRGSLQOVLPLPLPPDSDSAGSGSSGLRTAQLLLP 401

Db 359 ETVSINNNGAMFSSHHEPRGSISKCNLYLLIPHAVGSESDLKKEEAGIARPLKSLP 418

OY 402 GEATODPPLPTRAAAVNFENIDPAPELRP-----HP 434

Db 419 -----ALSVILDDYDVTDSLEKIQIPITQNGHP 445

OY 419 -----ALSVILDDYDVTDSLEKIQIPITQNGHP 445

Db 419 -----ALSVILDDYDVTDSLEKIQIPITQNGHP 445

OY 419 -----ALSVILDDYDVTDSLEKIQIPITQNGHP 445

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Tue Oct 7 15:55:04 2003

us-09-826-509-449.rapb

Page 8

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QY 401 PGEATODPPLPTRAAAAVNFENIDPAEPELR-----HP 434
Db 418 P-----ALSVILDYDIDVSLERKIDPITONGHP 445

Search completed: October 7, 2003, 15:20:56
Job time : 32 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 7, 2003, 15:04:57 ; Search time 20 Seconds
(without alignments)
930.839 Million cell updates/sec

Title: US-09-826-509-449

Perfect score: 2292

Sequence: 1 WVEPGPTANSTPAWGAGP.....FNIDPAPELLRHPGLGIPTN 440

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717.

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, PA.*
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23: /cgn2_6/ptodata/1/1aa/5W.COMB.pep.*
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27: /cgn2_6/ptodata/1/1aa/5A.COMB.pep.*

SUMMARIES

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2	557	24.3	477	1	US-08-087-772A-16
3	554	24.2	465	1	US-08-351-473B-2
4	553.5	24.1	365	2	US-08-467-559B-9
5	552.5	24.1	400	1	US-08-351-473B-5
6	552.5	24.1	400	3	US-08-450-962-4
7	552.5	24.1	400	3	US-08-450-962-6
8	552.5	24.1	446	1	US-07-626-618A-21
9	552.5	24.1	446	1	US-08-333-977-21
10	551.5	24.1	400	1	US-07-916-901-6
11	551.5	24.1	400	1	US-07-783-602C-1
12	551.5	24.1	400	1	US-08-351-473B-4
13	551	24.0	477	1	US-08-444-734A-4
14	547.5	23.9	446	2	US-07-969-267B-4
15	547.5	23.9	446	4	US-09-168-510-4
16	546	23.8	388	1	US-08-087-772A-2
17	538.5	23.5	472	1	US-08-194-338-6
18	533.5	23.3	487	1	US-08-444-734A-2
19	533	23.3	408	1	US-08-351-473B-3
20	531	23.2	402	1	US-08-444-734A-6
21	531	23.2	402	1	US-08-087-772A-15
22	531	23.2	408	3	US-08-450-962-2
23	531	23.2	408	3	US-08-450-962-5
24	524.5	22.9	446	1	US-07-626-618A-22
25	524.5	22.9	446	1	US-08-333-977-22
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ALIGNMENTS

28	515.5	22.5	483	1	US-08-194-338-7	Sequence 7, Appl1
29	508	22.2	559	2	US-08-406-855A-20	Sequence 20, Appl1
30	508	22.2	559	3	US-09-206-899-20	Sequence 20, Appl1
31	507.5	22.1	560	4	US-09-688-415-8	Sequence 8, Appl1
32	503	21.9	572	1	US-08-334-698-2	Sequence 2, Appl1
33	503	21.9	572	1	US-08-228-932-2	Sequence 2, Appl1
34	503	21.9	572	1	US-08-468-939-2	Sequence 2, Appl1
35	503	21.9	572	1	US-08-722-001-30	Sequence 30, Appl1
36	503	21.9	572	2	US-08-406-855A-2	Sequence 2, Appl1
37	503	21.9	572	2	US-08-722-190-2	Sequence 2, Appl1
38	503	21.9	572	3	US-08-244-354-2	Sequence 2, Appl1
39	503	21.9	572	3	US-09-206-899-2	Sequence 2, Appl1
40	503	21.9	572	4	US-09-444-783-2	Sequence 2, Appl1
41	503	21.9	572	4	US-09-688-415-2	Sequence 2, Appl1
42	503	21.9	572	5	PCT-US95-04203-2	Sequence 2, Appl1
43	499.5	21.8	501	1	US-08-722-001-14	Sequence 14, Appl1
44	499.5	21.8	501	2	US-08-467-568-9	Sequence 9, Appl1
45	499.5	21.8	501	2	US-09-030-582-9	Sequence 9, Appl1

RESULT 1
US-08-390-000A-7
Sequence 7, Application US/08390000A
Patent No. 5985583
GENERAL INFORMATION:
APPLICANT: Seallion, Stuart C.
TITLE OF INVENTION: Cloning and Expression of
TITLE OR INVENTION: Gonadotropin-Releasing Hormone Receptor
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,000A
FILING DATE: 17-FEB-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MISTOCK, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 6923-052
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212 790-9090
TELEFAX: 212 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 468 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-390-000A-7
Query Match 24.3%, Score 557, DB 2, Length 468;
Best Local Similarity 33.8%, Pred. No. 1, 8e-34;
Matches 144, Conservative 67, Mismatches 165, Index 46, Gaps 11;
OY 1 WVEPGPTANSTPAWGAGPSPAGSGVAAALCVLTAAANSLLTALICTOPALNT 60
DB 24 LVPSPPSPALIPPAPESEPEPLSQOFTAGMLMLIYLLIVAGNVLVIAIAKPRLOTL 83
OY 61 SNFLVSLFTSDLVAGLVVMPAMLMALIGRWVLAIGLCILMTAFDWCASIIILCLTI 120

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Db      84  TNLFIIMSLASADLVMLGVLVFPFGATIVYWGMEYGSFCELMITSDVLCVASTIETLCVI 143
QY      121  SLDRYLLILSLPRKLTPLRALALVGAASLAALSFLLLGW--HELGHARPPV-- 176
Db      144  ALDRYLLITSPFRQSLITRARAGLVCTVAISALVSFLILHMMWRAESDEARCYND 203
QY      177  PGOCRLASLPEVLVAGLTFEFLPSGALCFYTCRILLAARKQAVAS---LTTGASQ 232
Db      204  PKCCDFYTNRAVAYASVSFYPVLCINAFYLVFVREAOQVARKIDSCERRFLGGPARP 263
QY      233  ASET-----LOVPTPRPVEGASD-----RLATKHSKALKAKLTGIL 273
Db      264  PPSPPSPVPAPAPPGPAPRAAATAAPLANGRAGKRPRSLVALREOKALK---TLGII 320
QY      274  LGMEFTWLPEFVANIYQAV-CDGISGLFDVLTLGXCSTNPIIY---PLEMRDPR 329
Db      321  MGVTFLCWLPEFLANVKAHRELVPDLFEFVWMLGYANSAPFIICRSP---DERK 376
QY      330  ALGRFLPCPRCPREROASLASPSLRTSHSGRPGLSLQOVLPLP-PDSDSDSAGSG 388
Db      377  AFQGLCCARRAARRRATHGDRPRASGLARPg-----PPSPGAASDDDDDDVYGA 429
Y      389  SSGRL 394
Db      430  TPARL 435

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RESULT 2

US-08-087-772A-16
Sequence 16, Application US/0808772A
Patent No. 5691155

GENERAL INFORMATION:

APPLICANT: Nahmlas, Clara
APPLICANT: Emorine, Jean L.
APPLICANT: Strosberg, Donny A.
TITLE OF INVENTION: Nucleotide Sequences Encoding the Murine
NUMBER OF INVENTION: Beta3-Adrenergic Receptor and Their Applications
CORRESPONDENCE ADDRESS: 17
ADDRESSEE: Bell, Selzer, Park & Gibson
STREET: Post Office Drawer 34009
CITY: Charlotte
STATE: No. 5691155th Carolina
COUNTRY: USA
ZIP: 28234

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/087,772A

FILING DATE:

CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Linker, Raymond O.
REGISTRATION NUMBER: 26,419
REFERENCE/DOCKET NUMBER: 3339-195
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-881-3140
TELEFAX: 919-881-3175
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 477 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-087-772A-16

Query Match 24.38; Score 557; DB 1; Length 477;
Best Local Similarity 33.88; Pred. No. 1,8e-34;

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Matches 144; Conservative 67; Mismatches 169; Indels 46; Gaps 11;
QY      1  MVEPGETANSTPMAGAPGPSAGVAAALCVIALTAANSLLTALICTOPALRNT 60
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QY      61  SNFVLVSLFTSDLVGLVMPAPMLNLYGMVILARGLCLMTAFDWCCASINLICI 120
Db      93  TNLFIIMSLASADLVMLGVLVFPFGATIVYWGMEYGSFCELMITSDVLCVASTIETLCVI 152
QY      121  SLDRYLLILSLPRKLTPLRALALVGAASLAALSFLLLGW--HELGHARPPV-- 176
Db      153  ALDRYLLITSPFRQSLITRARAGLVCTVAISALVSFLILHMMWRAESDEARCYND 212
QY      177  PGOCRLASLPEVLVAGLTFEFLPSGALCFYTCRILLAARKQAVAS---LTTGASQ 232
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QY      233  ASET-----LOVPTPRPVEGASD-----RLATKHSKALKAKLTGIL 273
Db      273  PPSPPSPVPAPAPPGPAPRAAATAAPLANGRAGKRPRSLVALREOKALK---TLGII 329
QY      274  LGMEFTWLPEFVANIYQAV-CDGISGLFDVLTLGXCSTNPIIY---PLEMRDPR 329
Db      330  MGVTFLCWLPEFLANVKAHRELVPDLFEFVWMLGYANSAPFIICRSP---DERK 385
QY      330  ALGRFLPCPRCPREROASLASPSLRTSHSGRPGLSLQOVLPLP-PDSDSDSAGSG 388
Db      386  AFQGLCCARRAARRRATHGDRPRASGLARPg-----PPSPGAASDDDDDDVYGA 438
QY      389  SSGRL 394
Db      439  TPARL 444

```

RESULT 3

US-08-351-473B-2
Sequence 2, Application US/08351473B
Patent No. 5656440

GENERAL INFORMATION:

APPLICANT: LENZEN, GERLINDA
APPLICANT: KAPOOR, ARCHANA
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE
NUMBER OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
CORRESPONDENCE ADDRESS: 9
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MATER & NEUSTADT
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/351,473B
FILING DATE: 21-FEB-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 93 04670
FILING DATE: 21-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/FR94/00447
FILING DATE: 21-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 6639-001-0X PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220
 TELETYPE: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 405 amino acids
 TYPE: amino acid
 TOPOLOGY: 1linear
 MOLECULE TYPE: protein
 US-08-351-473B-2

Query Match 24.2%; Score 554; DB 1; Length 405;
 Best Local Similarity 33.6%; Pred. No. 2,6e-34;
 Matches 143; Conservative 61; Mismatches 156; Indels 66; Gaps 13;

QY 1 MYPEPG-PTANSTPAMGAPPSAPGSGVNAALCVIALTAANSLIALICTOPALRN 59
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 QY 60 TSNFVLSTSDMLVGLVMPAMALNLYGRVNLARGICLLMTAFDVWCCSASILNCL 119
 DB 71 MTNFFVSLATADLVGLVPPGATLALTGHPGLVGTCELMTSVDVLCVTSIETLCA 130
 QY 120 ISLDRLILSLRYKLTMTPLRALATVLAGMSLAALSFLLGWHELG-----H 171
 DB 131 LAVDRYLAVTNPRLGALVTKRRLAVALVYVSAVSAFADIMSKMRIGADAORCH 190
 QY 172 ARPPVPGCRLLASLFEVLVASGLTFELPSGALICTYCRILLAAKQAVQVASTTGM-- 229
 DB 191 SNPRC---CTFASNNPVALLSSVSFYLLVLMFLVYARVFAVVAHQ-LRLRLRLGPR 246
 QY 230 -----ASASELQVPRTPRGVESADSR--RLATKHSRAKAKLTGILLGMFEV 279
 DB 247 PEESPAPRSRSGSLAGPCASPGVPSYGRPARLLPLREHRLR---TLGLMGFTFL 303
 QY 280 TWLPEFVANIYQAV--CDCISPGLEFVLTWGYCSTNNPIY---PLFMDFKRLALRF 334
 DB 304 CWLPEFVYVNRALAGPSLVGPTFLALNMLGANSAPNPLTCRSPFRSAFRLLRC 363
 QY 335 LP-----CPQPRERQASLASPLSLTSHSGPRGLSLQVLPPLPPDSDSDSAGS 386
 DB 364 RPEHHLAASPRAPS-----GAPLALTPRAGPMQ-----PPELD----- 398
 QY 387 GGSGGL 392
 DB 399 GASGGL 404

RESULT 4

US-08-467-559B-9
 Sequence 9, Application US/08467559B
 Patent No. 5928890
 GENERAL INFORMATION:
 APPLICANT: LI, YI
 TITLE OF INVENTION: HUMAN AMINE RECEPTOR
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: STERN, KESSLER, GOLDSTEIN AND FOX, P. L. L. C.
 STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
 CITY: WASHINGTON
 STATE: DC
 COUNTRY: UNITED STATES OF AMERICA
 ZIP: 20005-3934
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/467,559B
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: STEFFE, ERIC K

REGISTRATION NUMBER: 36,688
 REFERENCE/DOCKET NUMBER: 1488,0840000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-2600
 TELEFAX: (202) 371-2540
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 365 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: not relevant
 MOLECULE TYPE: protein
 US-08-467-559B-9

Query Match 24.1%; Score 553.5; DB 2; Length 365;
 Best Local Similarity 37.8%; Pred. No. 2,5e-34;
 Matches 137; Conservative 56; Mismatches 134; Indels 35; Gaps 12;

QY 7 PTANSTPAMGAPPSAPGSGVNAALCVIALTAANSLIALICTOPALRNTSNF 63
 DB 9 PPSLTPPASEG--SAPLSQWTAGGLVIALIYVILVGNLVVALAKTRPLOTITNL 66
 QY 64 FVLSFTSDMLVGLVMPAMALNLYGRVNLARGICLLMTAFDVWCCSASILNCLISLD 123
 DB 67 FIMSLSADLVGLVPPGATVYVGRWEGSFCELMTSVDVLCVTSIETLCAIAD 126
 QY 124 RYLLISPLRYKLTMTPLRALATVLAGMSLAALSFLLGWHELG--HELGHAPV--PQ 179
 DB 127 RLATLTPSRQSLTLRAARALVCTWVAISLVSFLPLHMMWRSEADARCYNDPC 186
 QY 180 CGLLASLPEVLVASGLTFELPSGALICTYCRILLAAKQAVQVASTTGM--LTTGMSAQS- 234
 DB 187 CDFVNNRAIALSSVVSFVPLCIAMAFYLRFRERQOVKIDCERFLGPRAPPS 246
 QY 235 ETLQVPRTPRGVESADSR-----RLATKHSRAKAKLTGILLGMFEVTLPEFVA 287
 DB 247 EESPSPGPPRPSADSLANGRSSKRPSRLVALREQKALK---TLGITMGFTFLCMLPEFLA 303
 QY 288 NIVQAV--CDCISPGLEFVLTWGYCSTNNPIY---PLFMDFKRLALRPLPCR---C 340
 DB 304 NVKAFHDLVPRDLVEFFNMLGVANSAPNPLTYCRSP---DFKAPORLLCCARRAAC 359
 QY 341 PR 342
 DB 360 RR 361

RESULT 5

US-08-351-473B-5
 Sequence 5, Application US/08351473B
 Patent No. 5656440
 GENERAL INFORMATION:
 APPLICANT: LENZEN, GERLINDA
 APPLICANT: KAPOOR, ARCHANA
 TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE
 TITLE OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
 STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
 CITY: ARLINGTON
 STATE: VIRGINIA
 COUNTRY: USA
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/351,473B
 FILING DATE: 21-FEB-1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 93 04670
 FILING DATE: 21-APR-1993
 PRIOR APPLICATION DATA: PCT/FR94/00447
 APPLICATION NUMBER: PCT/FR94/00447
 FILING DATE: 21-APR-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: OBLON, NORMAN F.
 REGISTRATION NUMBER: 24,618
 REFERENCE/DOCKET NUMBER: 6639-001-0X PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 400 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-351-4738-5

Query Match 24.1%; Score 552.5; DB 1; Length 400;
 Best Local Similarity 35.1%; Pred. No. 3.3e-34;
 Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGFTANSTPA-WGAGP---PSAPGSG-----WVAALCVIAL-TAANSLLIALICTO 54
 DB 3 PMHRNGSLALMSDADLPDPSAANTSGLPVPMALALAGALLALATVGNLVIATART 62
 QY 55 PALRNTSNFLVSLFSDLMVGLVMPAMNLNLYGHWIARGLCLMTAFDVMCCSAST 114
 DB 63 PRLOTTNFFVTSLAADLVGLVMPGATLTALTGHWPGTCELTMTISVDVLCVTAST 122
 QY 115 LNLCLISLDRIYLLISPLRYKLTMTPLRALATLVGAMSLAALASFLPLLGWHELG---- 170
 DB 123 ETCLALAVDRYLAIVNPLRGLVTKRRRAAVLVWYSAASFAPINSQMRVGVDAE 182
 QY 171 ----HARPPVGGCRLLASLPEVLVAGLTFELPSAICETTCYRILLARKQAVQVASLT 226
 DB 183 AOECHSNPRC---CSFASNMYPALLSSVSFYLPLVLMLEFVARVEVAKRQR-HILRRE 238
 QY 227 TGNASOASETLQVPRPRP-----GVESADR--RLATKHSRKALKALITGILL 274
 DB 239 LGRFSPESPSRSPSPATGTGTPAAPDGVPPCGRRPARLLPLRHRRLR---TLGLIM 295
 QY 275 GMEFTWLPFFVANIQAVC--DCISPGLEFVLTWLGYNSTWNPITY--PLEMDFKR 329
 DB 296 GIFSLCMLPFLANVLRALAGPSLVSGFIALNMLGYANSANFNPIYICRSPDFRDAFR 355
 QY 330 AL----GRFLPCRC---PRERQASIASPSLR--TSHSGPRP 362
 DB 356 LICSYGGRGPEPRAVTFPASPVEAKOSPLNRFDEYEGARP 397

RESULT 6
 US-08-450-962-4
 Sequence 4, Application US/08450962
 Patent No. 6274706
 GENERAL INFORMATION:
 APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
 APPLICANT: STROSBURG, Donny
 TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
 TITLE OF INVENTION: GENES
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: KECK, MAHIN & CATE
 STREET: P.O. BOX 06110
 CITY: CHICAGO
 STATE: ILLINOIS
 COUNTRY: U.S.A.
 ZIP: 60606-0110

COMPUTER READABLE FORM:
 MEDIUM TYPE: 3-1/2" diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/450,962
 FILING DATE:
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/117,829
 FILING DATE: 08-SEPT-1993
 APPLICATION NUMBER: 07/721,571
 FILING DATE: 25-MAY-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/FR89/00918
 FILING DATE: 25-JAN-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: Field, Martin; Gollin, Michael A.
 REGISTRATION NUMBER: 16,900; 31,957
 REFERENCE/DOCKET NUMBER: 47078-042
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 789-3400
 TELEFAX: (202) 789-1158
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 400 residues
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: polypeptide
 US-08-450-962-4

Query Match 24.1%; Score 552.5; DB 3; Length 400;
 Best Local Similarity 35.1%; Pred. No. 3.3e-34;
 Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGFTANSTPA-WGAGP---PSAPGSG-----WVAALCVIAL-TAANSLLIALICTO 54
 DB 3 PMHRNGSLALMSDADLPDPSAANTSGLPVPMALALAGALLALATVGNLVIATART 62
 QY 55 PALRNTSNFLVSLFSDLMVGLVMPAMNLNLYGHWIARGLCLMTAFDVMCCSAST 114
 DB 63 PRLOTTNFFVTSLAADLVGLVMPGATLTALTGHWPGTCELTMTISVDVLCVTAST 122
 QY 115 LNLCLISLDRIYLLISPLRYKLTMTPLRALATLVGAMSLAALASFLPLLGWHELG---- 170
 DB 123 ETCLALAVDRYLAIVNPLRGLVTKRRRAAVLVWYSAASFAPINSQMRVGVDAE 182
 QY 171 ----HARPPVGGCRLLASLPEVLVAGLTFELPSAICETTCYRILLARKQAVQVASLT 226
 DB 183 AOECHSNPRC---CSFASNMYPALLSSVSFYLPLVLMLEFVARVEVAKRQR-HILRRE 238
 QY 227 TGNASOASETLQVPRPRP-----GVESADR--RLATKHSRKALKALITGILL 274
 DB 239 LGRFSPESPSRSPSPATGTGTPAAPDGVPPCGRRPARLLPLRHRRLR---TLGLIM 295
 QY 275 GMEFTWLPFFVANIQAVC--DCISPGLEFVLTWLGYNSTWNPITY--PLEMDFKR 329
 DB 296 GIFSLCMLPFLANVLRALAGPSLVSGFIALNMLGYANSANFNPIYICRSPDFRDAFR 355
 QY 330 AL----GRFLPCRC---PRERQASIASPSLR--TSHSGPRP 362
 DB 356 LICSYGGRGPEPRAVTFPASPVEAKOSPLNRFDEYEGARP 397

RESULT 7
 US-08-450-962-6
 Sequence 6, Application US/08450962
 Patent No. 6274706
 GENERAL INFORMATION:
 APPLICANT: EMORINE, Laurent; MARULLO, Stefano;
 APPLICANT: STROSBURG, Donny

TITLE OF INVENTION: INTRON/EXON OF THE HUMAN AND
 TITLE OF INVENTION: GENES
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: KECK, MAHIN & CATE
 STREET: P. O. BOX 06110
 CITY: CHICAGO
 STATE: ILLINOIS
 COUNTRY: U.S.A.
 ZIP: 60606-0110
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3-1/2" diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/450,962
 FILING DATE:
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/117,829
 FILING DATE: 08-SEPT-1993
 APPLICATION NUMBER: 07/721,571
 FILING DATE: 25-MAY-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/FR89/00918
 FILING DATE: 25-JAN-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: Fleit, Martin; Gollin, Michael A.
 REGISTRATION NUMBER: 16,900; 31,957
 REFERENCE/DOCKET NUMBER: 47078-042
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 789-3400
 TELEFAX: (202) 789-1158
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 400 residues
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE:
 DESCRIPTION: polypeptide
 US-08-450-962-6

Query Match 24.1%; Score 552.5; DB 3; Length 400;
 Best Local Similarity 35.1%; Pred. No. 3.3e-34;
 Matches 141; Conservative 60; Mismatches 150; Indels 51; Gaps 15;

QY 5 PGPANSTPA-WGACP---PSAPGSG-----WVAALCVIAL-TAAANSILALICTQ 54
 DB 3 PMPRRNSLALMSDAPLIDPSAANTSGIPVMAAALGALLALATVCGNLVITAIART 62
 QY 55 PALRNTSNFLVSLFTSDLMVGLVMPAMNALXGRVNLARGCLMTATADVWCSSSI 114
 DB 63 PRLOTINVTSTLAADLVVGLVMPGATLALTGHPLETCGCELTSTADVLCVYASI 122
 QY 115 LNLCLISLDRLYLISPLRYKLRMTPLRALVLGANSIALASFLPLLGHNHEIG--- 170
 DB 123 ETICALAVDYRLAVNTPLRGTLTKRRARAAYLVIVSAVSPAPIMSGMWVAGDAE 182
 QY 171 -----HARPPPGCRLASLPEVIVASGLFFELPSGALCFYTCILLAAKQAOVASLT 226
 DB 183 AQECHSNPRC---CSFASNMPTALLSSVSFPLPLVNLFYARVFAVAKRQ--HLARE 238
 QY 227 TGNASQASETLQVPRTRP-----GVESADSR--RLATKHSRKALKAKITLGLL 274
 DB 239 LGRRSPSPSPSRSPSPATGCTPAAPDGVPCGRPARPLPREHARL---TLGLIM 295
 QY 275 GMEFTVWLPPEFVANIYQAVC--DCISGLPDLVLTMLGYCNSTNPIIY---PLFMRDFKR 329
 DB 296 GIFSICVLPPEFLANVLAALAGPSLVPGVFIALWMLYANSANFPIVYICRSPDRDAEFR 355
 QY 330 AL-----GRFLPCRC---PREQASLASPSLR--TSHSGPRP 362

DB 356 LICSYGRRPEERAVTFPASPEARQSPPLNFDYEGARP 397

RESULT 8
 US-07-626-618A-21
 Sequence 21, Application US/07626618A
 Patent No. 5422265
 GENERAL INFORMATION:
 APPLICANT: Van Tol, Hubert H.M.
 APPLICANT: Clavell, Olivier
 TITLE OF INVENTION: A No. 5422265el Human Dopamine Receptor and Uses
 NUMBER OF SEQUENCES: 22
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Allegretti & Wilcoff, Ltd.
 STREET: 10 South Wacker Drive, Suite 3000
 CITY: Chicago
 STATE: Illinois
 COUNTRY: USA
 ZIP: 60606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/626,618A
 FILING DATE: 7 DEC 1990
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: No. 5422265nan, Kevin E
 REGISTRATION NUMBER: 35,303
 REFERENCE/DOCKET NUMBER: 90,1092
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312-715-1000
 TELEFAX: 312-715-1234
 TELEX: 810-221-8317
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 446 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 US-07-626-618A-21

Query Match 24.1%; Score 552.5; DB 1; Length 446;
 Best Local Similarity 31.2%; Pred. No. 3.7e-34;
 Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

QY 21 SAPGSGV-----AAALCVIALTAANSILALICTQPALRN-TSNEFLVSL 68
 DB 7 SAMDGTGLVERDSSVRLTACFSLILSTLGLTGLCAAVIRRRHRSKVTNEFVSL 66
 QY 69 FTSDLMVGLVMPAMNALXGRVNLARGCLMTATADVWCSSSIINLCISLDRLYLI 128
 DB 67 AVSDLLAVLVMPKVAEINGFMPFG-SFCNIWAEPIMKSTASILNLCISLDRLYAI 125
 QY 129 LSPRLKRLMTPLRALVLGANSIALASFLPLLGHNHEIGHARPPVG----- 178
 DB 126 SSPREYERKMPKKAFFILISVAMTSLVLSIFIPOLSWHK---AKPTSPSGNNTSLAET 182
 QY 179 --OORLLASLPEVIVASGLFFELPSGALCFYTCILLAAKQAOVASL--TTGNASQASE 235
 DB 183 IDNCDSLSIRYVALSSVSIFYPALMTVYTRYIAQOIRRIALERAHAHAKCQ 242
 QY 236 TLQVPRTRPPEVESADSRRLATKHSRKALKAKITLGLIGFETWLPPEFVANIYQAVCD 295
 DB 243 TTGNGKRVESQESSKMSFKRETKYLK---TISYMGVFCVCMPLFTLNKILPFCG 299
 QY 296 -----CISGLPDLVLTMLGYCNSTNPIIYPLFMRDFKRALDRFLPCPR-CPREQA- 346
 DB 300 SGETOPFCIDSNFTDVFVFMGANSINPIIY-AFNADFRAFSLLGCVRLCPATNNAI 358

OY 347 -----SLASPSLRTHSGPRGSLQOVLPLPPDSDDSDAGSGSSGLRLTQOLLP 401
DB 359 ETVSINNNGAAMFSSHHPRGSIKSCNLYIIPRAVGSSEDLKKEEAAGIARPLEKLS 418
OY 402 GEATODPPLPTRAAAAVNFENIDPAPELRLP-----HP 434
DB 419 -----ALSVIILDYDIDVSLERKIOPITONGQHP 445

RESULT 9

US-08-333-977-21
; Sequence 21, Application US/08333977
; Patent No. 5594108
; GENERAL INFORMATION:
; APPLICANT: Van Tol, Hubert H.M.
; APPLICANT: Civeille, Olivier
; TITLE OF INVENTION: A No. 5594108el Human Dopamine Receptor and Uses
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti & Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/333,977
; FILING DATE: 03-NOV-1994
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/626,618
; FILING DATE: 7 DEC 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5594108nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 90,1092
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 810-221-8317
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 446 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
S-08-333-977-21

Query Match 24.1%; Score 552.5; DB 1; Length 446;
Best Local Similarity 31.2%; Pred. No. 3,7e-34;
Matches 143; Conservative 79; Mismatches 172; Indels 65; Gaps 13;

OY 21 SAPGSGGV-----AAALCVIALTAANSLLIALICTOPALRN-TSNFFVSL 68
DB 7 SAMDGLVYERDFSVRIITACFSLILSTLLGNTLVCAVIFRILRSKVTNFFVSL 66
OY 69 FTSDLMVGLVPMRPMANALYGRVNLARGICLMTADVCCSINIICLISDRLLI 128
DB 67 AVSLLVAIVLMPKAAVETAGFVPG-SFCNIVAFDIDICSTASINILCVISVRYWAI 125
OY 129 LSPRLRYLMTPLRALALVIGANSIALASFLPLLGMEHGHARPPVPG----- 178
DB 126 SSPRYERKMTPKAFLISVAWTLVSLISFIPVQSMHK---AKPTSPDGKATSLAET 182
OY 179 --QORLASLPFVLVAGSLTFPLPSGAICTTCIILAAKQAVASL--TTGASQASE 235
DB 183 IDNCSSLSRTYALISSVISFIPVAVIMVTYTRIARIKOKIRRIALBRAAVHAKNCQ 242

OY 226 TLQVPRTPRGVESADSRRLATKSRKAKATLGLGMEFTWLPFFVANIQAVCD 295
DB 243 TTGNGKREVCESQPFSSFKMSFKRETKYLK---TSLVINGVVCMLPFFILNCLPFCG 299
OY 296 -----CISGLFVPLWMLGNCSTNMPITPLMRDPRKALGFLPPR-CPRERQA- 346
DB 300 SGEIOPFCIDSTFVFWFVWFGVANSNLNPII-ATNADPKAFSTLLGCTRLCPATNNAI 358
OY 347 -----SLASPSLRTHSGPRGSLQOVLPLPPDSDDSDAGSGSSGLRLTQOLLP 401
DB 359 ETVSINNNGAAMFSSHHPRGSIKSCNLYIIPRAVGSSEDLKKEEAAGIARPLEKLS 418
OY 402 GEATODPPLPTRAAAAVNFENIDPAPELRLP-----HP 434
DB 419 -----ALSVIILDYDIDVSLERKIOPITONGQHP 445

RESULT 10

US-07-916-901-6
; Sequence 6, Application US/07916901
; Patent No. 5364772
; GENERAL INFORMATION:
; APPLICANT: Graneman, James G.
; APPLICANT: Lahners, Kristine N.
; TITLE OF INVENTION: @ #3-ADRENERGIC RECEPTOR PROTEIN AND DNA
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: REISING, ETHINGTON, BARNARD, PERRY &
; STREET: 201 W. Big Beaver - Ste. 400; P.O. Box 4390
; CITY: Troy
; STATE: Michigan
; COUNTRY: USA
; ZIP: 48099
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/916,901
; FILING DATE: 19920720
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kohn, Kenneth I
; REGISTRATION NUMBER: 30,955
; REFERENCE/DOCKET NUMBER: P-324(WSD)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (313) 689-3554
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-916-901-6

Query Match 24.1%; Score 551.5; DB 1; Length 400;
Best Local Similarity 35.3%; Pred. No. 4e-34;
Matches 142; Conservative 61; Mismatches 148; Indels 51; Gaps 15;

OY 5 PGPTANSTPA-WGAGP---PSAPGSG-----WVAALCVIAL-TAANSLLIALICTO 54
DB 3 PWRPKNSLAFWSDAPFLDPSAANTSGLPVPAALAGALLATVGSNLVITAIART 62
OY 55 PALRNTSNFVLSTFTSDLMVGLVPMRPMANALYGRVNLARGICLMTADVCCSASI 114
DB 63 PRLOTINNEVTSIATADLVVGLVMPGATIALTGHPIDGATGCELVTSVDVLCVTSI 122
OY 115 LNLCLISLDVYLLITSLRLKRLMTPLRALALVIGANSIALASFLPLLGMEHGLG----- 170

DB 123 ETLCALADRYLAVTNPLRYGTLTKRRARAVALVWITAVSAPFIMSQMWRGADAE 182
QY 171 ----HARPPVQCCLLASLPFVLVAGSLTFPLPSGALCFYCRILLAAKROAVOVSIT 226
DB 183 AOECHSNPRC---CSFASNMFPALLSSSVSYFLPLVLMFVARFVAVAKROR-RLRRE 238
QY 227 TGMASQASSETLOVPTRP-----GVESADSR--RLATKSRKALKAKLTIGILL 274
DB 229 LGFPPESPRSPSRSPSPATVGTPTASDGVPSGCRPARLLPLGHRALR---TLGLIM 295
QY 275 GMFETWLPFVAVITVQAVC--DCISPLGLDVLTMGLYCNSTMPNPIY---PLFMRDKR 329
DB 296 GIFSICWLPFLAVNLVRAVLVPSGLVPSGVFIALNMLGIANSAPNPLICRSPDFDAFR 355
QY 330 AL----GRLPCPRC---PREROASLASPSLR--TSHSGRP 362
DB 356 LLCSTGGRGPEPRVYTFPPASPVASRONSPLNRFDGYGERP 397

RESULT 11

US-07-783-602C-1
; Sequence 1, Application US/07783602C
; Patent No. 5418160
; GENERAL INFORMATION:
; APPLICANT: J. Craig Venter et al
; TITLE OF INVENTION: A FAT CELL SPECIFIC a-ADRENERGIC
; TITLE OF INVENTION: RECEPTOR
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lowe, Price, Leblanc & Becker
; STREET: Suite 300, 99 Canal Center Plaza
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22314
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: DOS Text File
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/783, 602C
; FILING DATE: 19911101
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: J.G. Mullins
; REGISTRATION NUMBER: 33073
; REFERENCE/DOCKET NUMBER: 717-098
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703 684 1111
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Polypeptide
US-07-783-602C-1

Query Match 24.1%; Score 551.5; DB 1; Length 400;
Best Local Similarity 35.8%; Pred. No. 4e-34;
Matches 144; Conservative 61; Mismatches 146; Indels 51; Gaps 15;
QY 5 PGTANSTRA-WGAGP---PSAPGSG-----WVAALCVIAL-TAANSILALICTQ 54
DB 3 PPHKNGSLFWSADAPLDPSSAANTSGLPVPAWAAALAGALLALATAGMILVITAIART 62
QY 55 PALRNTSNFVLVSLFSDLMVGLVWPRALNLYGHWYVARGLCLMTAFDWCSCASI 114
DB 63 PRIGTTINFFVSLADVLVGLVMPGATLALTGHPMPGARGCELMTSVDVLCVTASI 122
QY 115 LNLCLISLDRYLLILSLPRYKLRMTFLRALALVIGAWSLAALASFLPLLLGWHELG---- 170

DB 123 ETLCALADRYLAVTNPLRYGTLTKRRARAVALVWITAVSAPFIMSQMWRGADAE 182
QY 171 ----HARPPVQCCLLASLPFVLVAGSLTFPLPSGALCFYCRILLAAKROAVOY---- 222
DB 183 AOECHSNPRC---CSFASNMFPALLSSSVSYFLPLVLMFVARFVAVAKRORRRVREL 239
QY 223 -----ASLTGMASQASSETLOVPTRPGRVESADSR--RLATKSRKALKAKLTIGILL 274
DB 240 GFFPPESPRSPSRSPSPATVGTPTASDGVPSGCRPARLLPLGHRALR---TLGLIM 295
QY 275 GMFETWLPFVAVITVQAVC--DCISPLGLDVLTMGLYCNSTMPNPIY---PLFMRDKR 329
DB 296 GIFSICWLPFLAVNLVRAVLVPSGLVPSGVFIALNMLGIANSAPNPLICRSPDFDAFR 355
QY 330 AL----GRLPCPRC---PREROASLASPSLR--TSHSGRP 362
DB 356 LLCSTGGRGPEPRVYTFPPASPVASRONSPLNRFDGYGERP 397

RESULT 12

US-08-351-473B-4
; Sequence 4, Application US/08351473B
; Patent No. 5656440
; GENERAL INFORMATION:
; APPLICANT: LENZEN, GERLINDA
; APPLICANT: KAPOOR, ARCHANA
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE
; TITLE OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELAND, MAIER & NEUSTADT
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/351,473B
; FILING DATE: 21-FEB-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 93 04670
; FILING DATE: 21-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR94/00447
; FILING DATE: 21-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 6639-001-0X PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-3220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 400 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-351-473B-4

Query Match 24.1%; Score 551.5; DB 1; Length 400;
Best Local Similarity 35.1%; Pred. No. 4e-34;
Matches 141; Conservative 62; Mismatches 148; Indels 51; Gaps 15;

```

: SOURCE CHARACTERISTICS:
: LENGTH: 477 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: FRAGMENT TYPE: internal
: US-08-444-734A-4

Query Match      24.0%; Score 551; DB 1; Length 477;
Best Local Similarity 33.8%; Pred. No. 5,2e-34;
Matches 144; Conservative 66; Mismatches 170; Indels 46; Gaps 11

QY 1 NVPEGPANSPNAPGAGSPSAPGSGCWAALCVIATTAANSLLALICQPALRNT 60
DB 33 LVPSAPPSPSLPPASESPPEPLSQONTAGLIMALLELIVAGNVIVIAIAKTPRLQTL 92
QY 61 SNFELVSLFTSDLMGLVMPMPAMNALLYGRWVLARGLCLMTAFDPMCCASILNLCIL 120
DB 93 TNLFTMSLASADIVMGLVPPGATIVYWGREGYSGFPELMTSYDVLCTASTIERLCVI 152
QY 121 SLDRYLILSLPRKYLRMTPLRALALVYGAMSLAALASFLPLLGN--HELGHAPPV-- 176
DB 153 ALDRYLATTSPEFYOSLTTRARARGLVCYVMAISALVSPFLPMHWRAESDEARCYND 212
QY 177 PGQORLLASLPEVLVASGLTFPELPGCAICFTCYCRILMARKAHOVAA--LTTGMASQ 232
DB 213 PKCCDEVTNRAIYALASVSFVPLCIAMFVLRVFRERQKOVKTKDSERRFLGGPARP 272
QY 233 ASET-----LOVPRTPPGVESADS-----RRATKHSRAKLAKTLGLIL 273
DB 273 PSPSPVPAPAPAPPGPPRPAATAATAPLANGARAKRRSRKLVALREQALK---TLGIT 329
QY 274 LGMEFTWLPPEFVANIYQAV--CDCISPLGLFDVLTWLGVCNSTMPNITY--PLFMDFRK 329
DB 330 MGVTTCMLPPEFLANVYVAFHRELVPDRLEVFENMLGYANSANFNPIITCRSP---DFRK 385
QY 330 ALGRLFLCPRPRRQASLASPLSTSHSGRPGLSQOVLPLP--PPSDSDSAGSGG 388
DB 386 AFQGLCCARARARRRATHGDRPRASGCLARP-----PPSPGASDDDDDDVYGA 438
QY 389 SSGRL 394
DB 439 TTPARL 444

RESULT 14
US-07-969-267B-4
: Sequence 4, Application US/07969267B
: Patent No. 5882855
: GENERAL INFORMATION:
: APPLICANT: Weinsbank, Richard L.
: APPLICANT: Hartig, Paul R.
: TITLE OF INVENTION: DNA Encoding A Human Dopamine D1
: TITLE OF INVENTION: Receptor And Uses Thereof
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Cooper & Dunham LLP
: STREET: 1185 Avenue of the Americas
: CITY: New York
: STATE: New York
: COUNTRY: U.S.A.
: ZIP: 10036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/969,267B
: FILING DATE: 05-OCT-1993

```



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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/551,448
FILING DATE: 10-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 37526-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 446 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
CLONE: D1
US-07-969-267B-4

Query Match      23.9%, Score 547.5; DB 2; Length 446;
Best Local Similarity 30.9%, Pred. No. 8.9e-34;
Matches 142; Conservative 80; Mismatches 172; Indels 65; Gaps 13;

OY 21 SAPGSGWV-----AAALCVIALTAANSLILALICOPALRN-TSNEFLVSL 68
DB 7 SAMDGTGLVERDPSVRLTRACFSLSLTLGLTGLTCAVYIRRHRSKYTNFEVISTL 66
OY 69 FTSDLMVGLVMPAPMALNLYGRVYLARGCLLTWTAFDVCCSAILNCLISIDRYLI 128
DB 67 AVSDLLVAVLVMPKAAVAELIAGFWPG-SFCNINWAFDMCSTASILDLCYISVDRYAI 125
OY 129 LSPRLRYKMTPLRLALVLAGMSLAALASFLPLLGHHELGHARPPVPG----- 178
DB 126 SSPRYERKMTPKAAFLISVAMTSLVLSIFIPOLSMHK---AKPTSPDGNATSLAET 182
OY 179 --QCRLASLPEVLYVAGSLTFEFLPSGAICFYCRILLAARQAVASTL-TTGMASSQASE 235
DB 183 IDNCDSLSRYTALSSSVISFYIYVAMITVYTRYIRAOQIRRIALERAHAHAKNCQ 242
OY 236 TLQVPRPRPGVESADSRRLATKHSRKALKAKLTGLILGMEFTWLPFEVANIYQAVCD 295
DB 243 TTGNKGRVPCSCPESSFKMSFKRETKVK---TLVIMGFVCCWLPFLINCLILPFCG 299
OY 296 -----CISPGLEVDLVTWLYGYNSTNMPITLYPLFMDFKRALGRFLPCPR-CPREQA- 346
DB 300 SGETOPFCIDSNFTDVFVWFGMANSSLNPIIY-AFNADFRAKASTLLGCYRLCPATNNAI 358
OY 347 -----SLASPLRSHSGPRPGSLQOVLPLLPDSDSDSDAGSGSSGGLRLTAQLLP 401
DB 359 ETVSINNNGAAMSSSHHEPRGSISKECNLVYLIPHAVGSSSEDLKKEBAAGIARPLEKISP 418
OY 402 GEATODPPLPTRAAAVNFENIDPAPELRP-----HP 434
DB 419 -----ALSVILDYDTDVSLEKIPIITONGHP 445

RESULT 15
US-09-168-510-4
; Sequence 4, Application US/09168510
; Patent No. 6468767
; GENERAL INFORMATION:
; APPLICANT: weinshank, Richard L.
; APPLICANT: Hartig, Paul R.
; TITLE OF INVENTION: DNA Encoding A Human Dopamine D1
; TITLE OF INVENTION: Receptor And Uses Thereof
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York

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STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/168,510
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/969,267
FILING DATE: 05-OCT-1993
APPLICATION NUMBER: 07/551,448
FILING DATE: 10-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 37526-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 446 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
CLONE: D1
US-09-168-510-4

Query Match      23.9%, Score 547.5; DB 4; Length 446;
Best Local Similarity 30.9%, Pred. No. 8.9e-34;
Matches 142; Conservative 80; Mismatches 172; Indels 65; Gaps 13;

OY 21 SAPGSGWV-----AAALCVIALTAANSLILALICOPALRN-TSNEFLVSL 68
DB 7 SAMDGTGLVERDPSVRLTRACFSLSLTLGLTGLTCAVYIRRHRSKYTNFEVISTL 66
OY 69 FTSDLMVGLVMPAPMALNLYGRVYLARGCLLTWTAFDVCCSAILNCLISIDRYLI 128
DB 67 AVSDLLVAVLVMPKAAVAELIAGFWPG-SFCNINWAFDMCSTASILDLCYISVDRYAI 125
OY 129 LSPRLRYKMTPLRLALVLAGMSLAALASFLPLLGHHELGHARPPVPG----- 178
DB 126 SSPRYERKMTPKAAFLISVAMTSLVLSIFIPOLSMHK---AKPTSPDGNATSLAET 182
OY 179 --QCRLASLPEVLYVAGSLTFEFLPSGAICFYCRILLAARQAVASTL-TTGMASSQASE 235
DB 183 IDNCDSLSRYTALSSSVISFYIYVAMITVYTRYIRAOQIRRIALERAHAHAKNCQ 242
OY 236 TLQVPRPRPGVESADSRRLATKHSRKALKAKLTGLILGMEFTWLPFEVANIYQAVCD 295
DB 243 TTGNKGRVPCSCPESSFKMSFKRETKVK---TLVIMGFVCCWLPFLINCLILPFCG 299
OY 296 -----CISPGLEVDLVTWLYGYNSTNMPITLYPLFMDFKRALGRFLPCPR-CPREQA- 346
DB 300 SGETOPFCIDSNFTDVFVWFGMANSSLNPIIY-AFNADFRAKASTLLGCYRLCPATNNAI 358
OY 347 -----SLASPLRSHSGPRPGSLQOVLPLLPDSDSDSDAGSGSSGGLRLTAQLLP 401
DB 359 ETVSINNNGAAMSSSHHEPRGSISKECNLVYLIPHAVGSSSEDLKKEBAAGIARPLEKISP 418
OY 402 GEATODPPLPTRAAAVNFENIDPAPELRP-----HP 434
DB 419 -----ALSVILDYDTDVSLEKIPIITONGHP 445

Search completed: October 7, 2003, 15:13:03

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Tue Oct 7 15:55:04 2003

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Job time : 22 secs
